

EMS Provider

AVIAN INFLUENZA

Agent Information: The "avian influenza virus" refers to influenza A viruses found chiefly in birds, but

infections with certain strains can occur in humans. Many different subtypes of type A influenza viruses exist. These subtypes are identified by specific proteins on the surface of the influenza A virus (hemagglutinin [HA] and neuraminidase [NA] proteins). There are 16 known HA subtypes and 9 known NA subtypes of influenza A viruses, with many different combinations of HA and NA proteins possible. Each combination represents a different subtype of the virus. Human

illness has been documented from types H5, H7, and H9.

Signs and Symptoms: The reported symptoms for avian influenza in humans have ranged from typical

influenza-like symptoms (fever, cough, sore throat, and muscle aches) to eye infections (conjunctivitis), pneumonia, acute respiratory distress, viral pneumonia,

and other severe life-threatening complications.

Transmission: Direct contact with infected poultry or contaminated surfaces. Avian strains which

infect humans may acquire the ability to be spread from person to person. Personto-person transmission of H5N1 in Asia is suspected on rare occasions but not proven. Person-to-person transmission occurs by droplet, aerosol and fomite

transmission.

Protective Measures: Initiate droplet precautions for persons with H5-like illness or confirmed H5

infection, including wearing masks when within 3 feet of the patient, wearing gowns if clothing is likely to be soiled by body fluids, and practicing hand hygiene before

and after patient contact.

Decontamination for PPE

and equipment: Routine cleaning with hospital-approved disinfectant, linen management as with all

other patients.

Prophylaxis: Four different influenza antiviral drugs (amantadine, rimantadine, oseltamivir, and

zanamivir) are approved by the U.S. Food and Drug Administration (FDA) for the treatment of influenza; three are approved for prophylaxis. All four have activity against influenza A viruses. However, sometimes influenza strains can become

resistant to these drugs, and therefore the drugs may not be effective.

Treatment: There is no vaccine currently available. The H5N1 virus that has caused human

illness and death in Asia is resistant to amantadine and rimantadine, two antiviral medications commonly used for influenza. Two other antiviral medications, oseltamavir and zanamavir would probably work to treat influenza caused by H5N1, but additional studies still need to be done to demonstrate their

effectiveness.

Reporting: Any suspect cases should be reported immediately to the Division of Public Health,

Epidemiology Branch: 1-888-295-5156 (24/7 coverage). For additional information

view the CDC website: http://www.cdc.gov/flu/avian/.

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